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Polysiloxane(s) filled with polycarbodiimide(s) - giving cold-setting elastomeric compsns. with improved heat resistance and adhesion

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Number of Countries: 010 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 2730743	A	19790125				197905	B
EP 350	A	19790124				197905	
JP 54017961	A	19790209				197911	
BR 7804340	A	19790320				197914	
US 4214066	A	19800722				198032	
EP 350	B	19820120				198204	
DE 2861542	G	19820304				198210	
CA 1133165	A	19821005				198246	
JP 83033893	B	19830722				198333	
IT 1106604	B	19851111				198715	

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Cited Patents: DE 1945474; DE 2602413; FR 2256225

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EP 350 A

Designated States (Regional): BE DE FR GB NL

EP 350 B G

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Abstract (Basic): DE 2730743 A

Polysiloxanes are modified with polycarbodiimides, the components being present as separate phases, opt. with partial chemical and/or physical bonding. The polycarbodiimides are produced in situ. from di- or poly-isocyanates in presence of known catalysts, while stirring with a polysiloxane fluid.

Used for prepn. of one- and two-component cold-setting elastomeric compsns. for filling joints in concrete, etc. and as additives in other polymer compsns. Easily prepd. and give improved heat resistance, tensile strength at elevated temps. compression set and moisture-resistant adhesion to concrete substrates, compared with known organic-filled polysiloxanes.

Title Terms: POLYSILOXANE; FILLED; POLYCARBODIIMIDE; COLD; SET; ELASTOMER; COMPOSITION; IMPROVE; HEAT; RESISTANCE; ADHESIVE

Derwent Class: A26